

**CANTON
ALLIGATOR
SHEARS**

Dr. B
No. 218
Date 1923

Canton Alligator Shears

THIS catalog illustrates and describes "Canton" Semi-Steel Shears, built in various styles and sizes, for cutting from 1 inch square to 3 inches square inclusive.

For the shearing of stock over 3 inches square you are referred to our Catalog 100-S.

Twenty-five years ago the first "Canton" Alligator Shears were built. Yet those first Shears are in operation today, giving excellent service to their owners.

It would be impossible to compute the tonnage that has passed through their jaws—or to estimate in dollars and cents what they have added to the income of their owners.

Their first cost, plus the expense of operation, is only a fraction of a cent per ton for the material handled. On the other hand they have added thousands of dollars to the profit of the business.

This is a fair example of what may be expected of "Canton" Alligator Shears. They keep expenses down and at the same time build up the earning capacity of the business out of all proportions to their cost.

Brute strength and super-human endurance are the two essential qualities the buyer of an Alligator Shear has a right to expect. *The first means the machine will deliver its full capacity without faltering—the second that it will keep on doing so indefinitely.*

"Canton" Alligator Shears Possess Both These Qualities

In Scrap Iron Yards they enable the progressive dealer to keep his stock classified, cut to uniform lengths and piled up as fast as received. Hence larger and more diversified tonnage can be carried in the same space than when material is dumped in jumbled scrap heaps.

When scrap is classified and piled it is quickly and more easily marketed and sells for from 50% to 100% more than unsorted—hence increased profits. Cut scrap can be handled and shipped more promptly and at less expense.

In general "Canton" Alligator Shears are the means of turning over a larger volume of business at greatly increased profit with the same amount of invested capital and in the same storage area.

Semi-Steel Castings

are used thruout in "Canton" Shears illustrated and described in this catalog.

These castings are a mixture of Northern and Southern pig iron, No. 1 machinery scrap and 20% of steel. Experience has taught us that this makes the strongest and toughest casting for Alligator Shears, resulting when assembled in the most efficient and economical machine that can be built.

Before building "Canton" Shears of 3 inch square capacity and under of semi-steel castings, experiments were made with other types. For instance, at one time "Canton" Shears were built of all gray iron castings and then again with light all steel castings.

The all cast iron Shears, altho possessing ample weight, had not sufficient strength. The all steel Shears for cutting 3-inch square and lighter, altho

possessing sufficient strength in the individual castings when assembled together resulted in so light a machine that they had not sufficient weight.

An Intermittent Cutting Machine, such as an Alligator Shear, called upon to receive sudden severe shocks and jars must possess great weight in order to give years of successful service. Weight is the back-bone of an Alligator Shear. You cannot secure this necessary "weight-strength" with cast iron castings or light steel castings.

Observing "Canton" Shears in service for so many years, we have learned every point where weakness might develop. It is these points that have been doubly reinforced.

Looking carefully at the machines illustrated in this catalog, you will see the heavy shoulders of solid metal that have been erected at all points where strain occurs.

"Canton" Shears of today possess many advantages and improvements not found in the earlier machines, yet

The Double Gears

that made the first Shears so efficient and popular are used today. Double Gears produce perfect balance not alone in the application of power, but also in the distribution of the terrific strains. Torsional strain is eliminated and a "Canton" Shear with broken and twisted shafts is never seen.

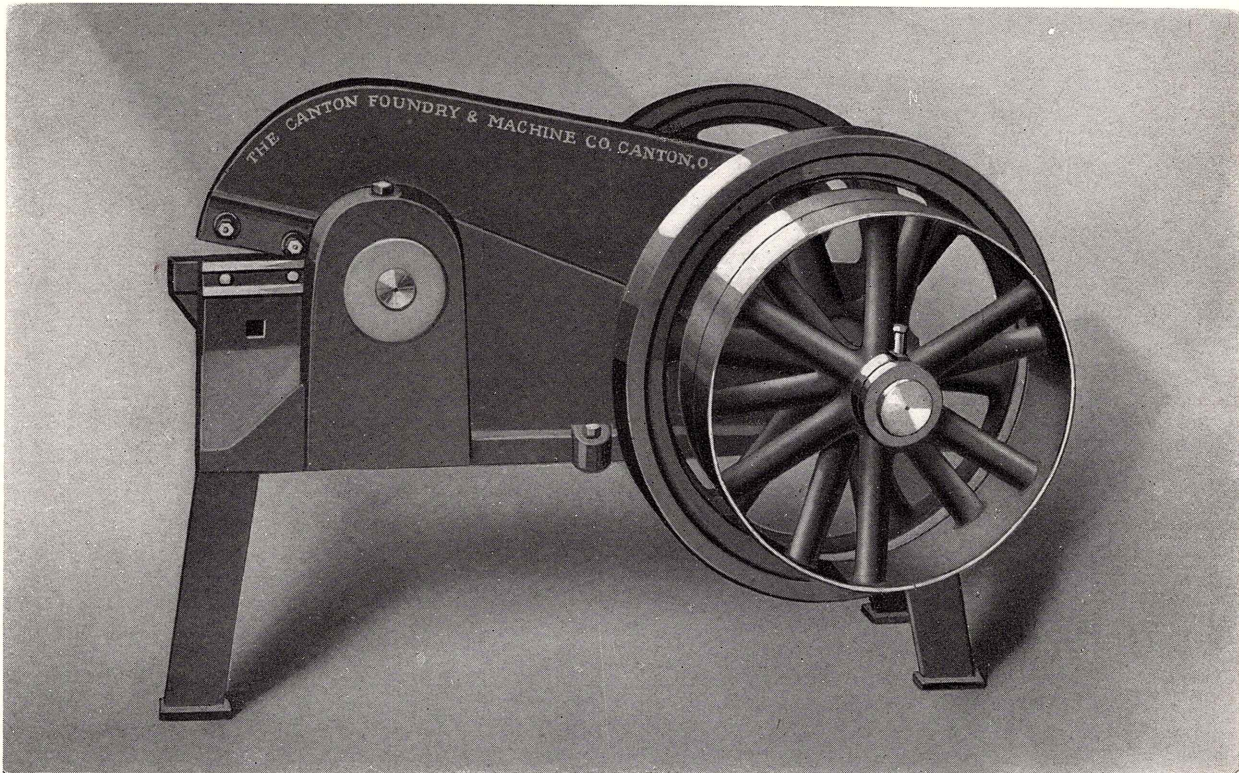
While many of the old features are still to be found in "Canton" Shears, the undesirable ones have been eliminated. For instance, like most Shears built today the **first** "Cantons" were designed with the lever casting babbitted into the base in which adjustment for wear and rebabbiting was provided by means of a take-up shoe. Laborious, costly, inefficient, yet there seemed no better way of doing this. "Canton" Shears of today are built with

A Patented Fulcrum Pin

This consists of a pin with annular grooves near the ends. Heavy bolts pass down through the top of each bed housing through these grooves, thus holding the fulcrum pin firmly in place and tying the housings securely together. As the Shear operates the fulcrum pin slowly revolves. There is absolutely no one place that can receive more wear than another, hence the wearing surface is extended the entire length and circumference of the pin. Shears in operation 10 years or more when examined have needed no new pins—or any repairs.

There are of course many other features to be found in "Canton" Shears—and "Canton" Shears only. These enumerated, however, should be sufficient to prove that "Canton" Shears are in a class by themselves, and that they are kept up-to-date in design and construction.





Number Thirty Shear

A light, quick acting machine, especially useful in Automobile Body Shops, Metal Sash Door and Furniture Plants, as well as factories making steel rods, etc.

This machine handles everything up to and including its maximum capacity of 1-inch round or square in soft machinery steel or iron.

Many of our customers use a machine of this type in addition to the heavier Shears, thereby relieving the latter of a large volume of light work.

See page 16 for illustration of this Shear in portable style.

The shearing capacity of this machine is up to and including 1" round or square in soft machinery steel or iron.

The total weight is 3500 lbs., 3 horse power required to operate at full capacity.

This Shear is equipped with Double Fly Wheels, 38" in diameter, tight and loose pulleys 24" x 6", operating at 70 revolutions per minute.

Cutting speed 70 cuts per minute.

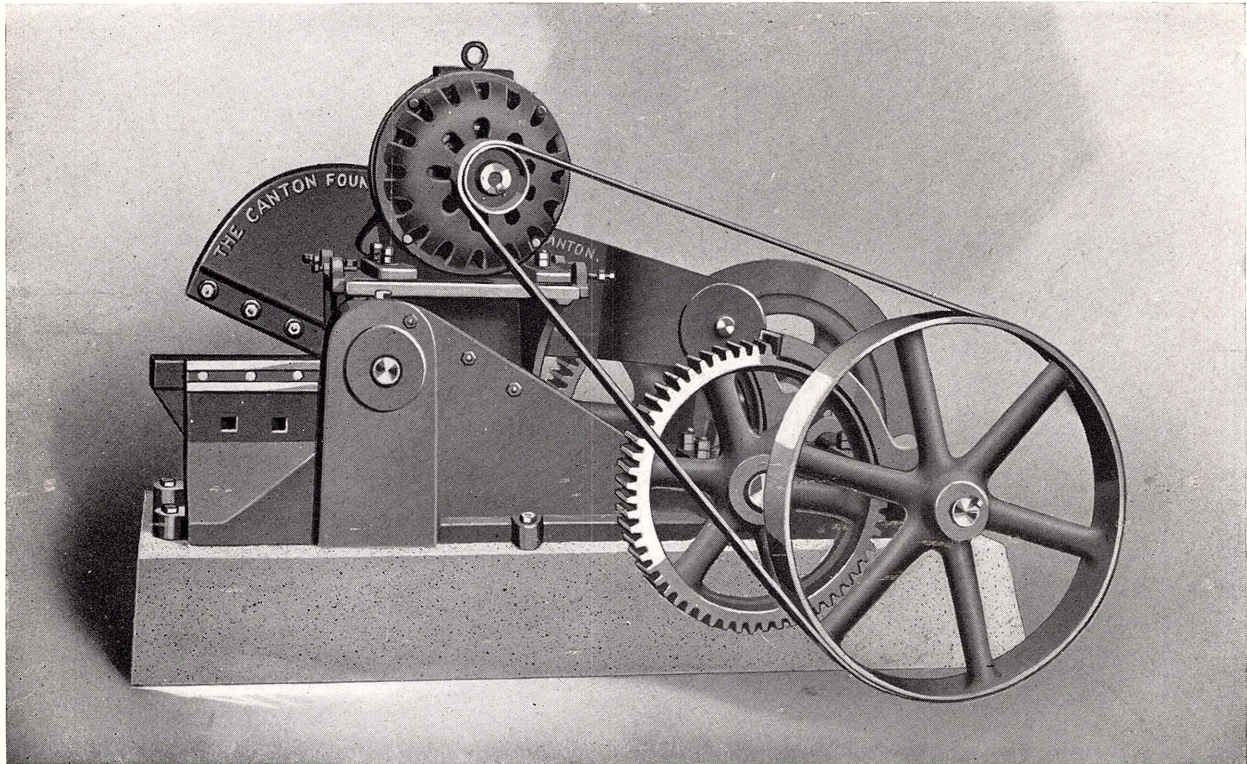
Knives 8" in length. Opening at widest point of jaw $2\frac{3}{4}$ ".

All main castings such as lever, base, gears, double fly wheels, pitman and pulleys are of semi-steel.

The crank shaft is a well balanced, properly proportioned cast steel shaft $3\frac{1}{4}$ " in diameter.

All bearings are best quality of babbitt.

Built in Right or Left Hand, Belt or Motor Drive. This illustrates a No. 30 Low-Knife Right Hand Belt Driven Shear.



Number One Shear

A clipping or busheling Shear, extensively used by Automobile Body Shops, Scrap Rubber Dealers, Metal Dealers and in the Reclaiming Departments of large Rubber Tire Companies. Also used in various Manufacturing Plants where the cutting calls for $1\frac{1}{2}$ " round or square in soft machinery steel or iron. Popular among Concrete Construction Companies for shearing reinforcing rods.

Many of our customers use a number of these machines where the volume of work is sufficient to keep a fleet busy — others one or two of these smaller Shears to relieve their larger equipment.

See page 17 for illustration of this Shear in portable style.

Also page 11 for High-Knife type of same Shear.

The shearing capacity of this machine is up to and including $1\frac{1}{2}$ " round or square in soft machinery steel or iron.

The total weight is 4600 lbs., 3 horse power required to operate at full capacity.

This Shear is equipped with Double Gears each 24" in diameter, tight and loose pulleys 24" x 4", operating at 200 revolutions per minute. Single Fly Wheel 32" in diameter.

Cutting speed 50 cuts per minute.

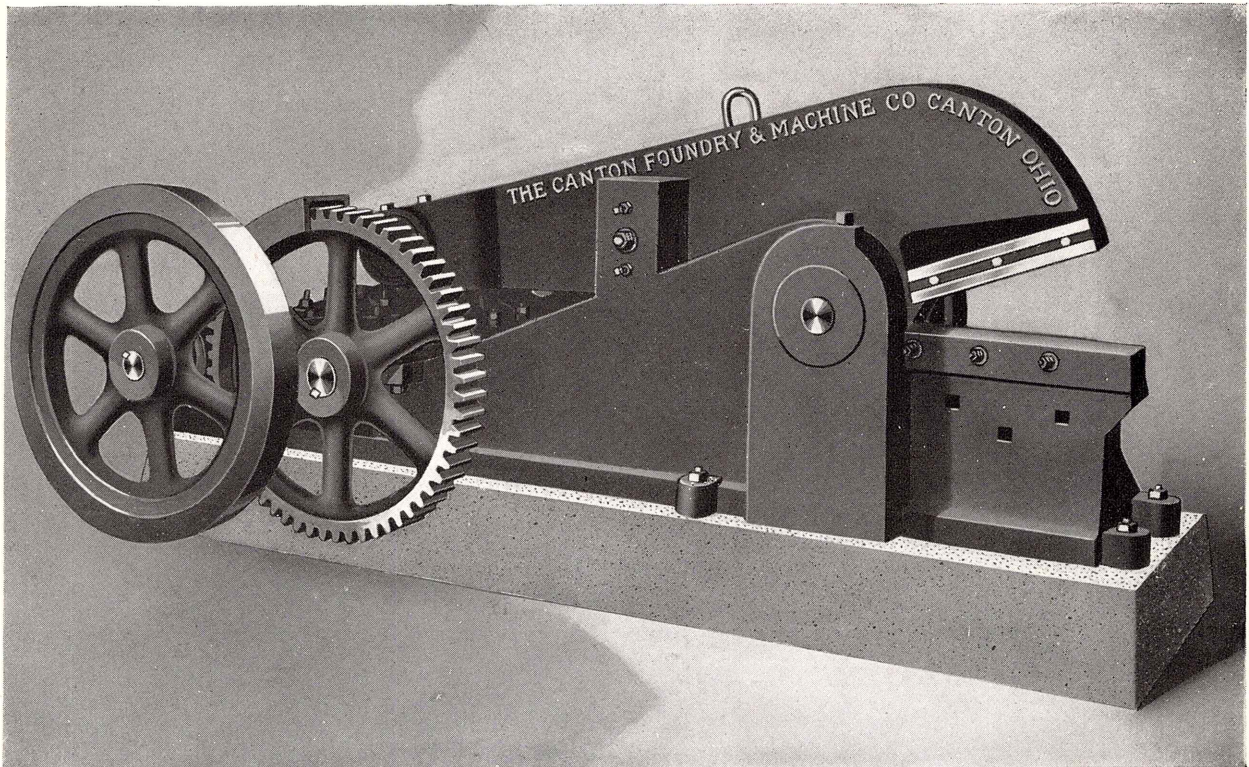
Knives either 13", 15" or 16" in length. Opening at widest point 6".

All main castings such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft, $3\frac{1}{8}$ " in diameter.

Main bearings are phosphor-bronze—all other bearings of best quality babbitt.

Built in Right or Left Hand, Belt or Motor Drive. This illustrates a No. 1 Low-Knife Right Hand Motor Driven Shear.



Number Two Shear

A large clipping or busheling Shear, quite extensively used for shearing reinforcing rods, also by Drop Forge Manufacturers, for shearing flashings. In use elsewhere by Scrap Iron and Steel Companies, as well as various classes of Manufacturing Companies.

An excellent machine for medium work that calls for a larger Shear than our No. 30 or No. 1.

When equipped with 24-inch knives it makes a very handy Shear for the Busheling Department of any scrap yard.

See page 18 for illustration of this Shear in portable style.

Also page 12 for High-Knife type of same size.

The shearing capacity of this machine is up to and including $1\frac{3}{4}$ " round or square in soft machinery steel or iron.

The total weight is 9000 lbs., 5 horse power required to operate at full capacity.

This Shear is equipped with Double Gears $33\frac{1}{2}$ " in diameter, tight and loose pulleys $24" \times 6"$, operating at 225 revolutions per minute. Single Fly Wheel $36"$ in diameter.

Cutting speed 45 cuts per minute.

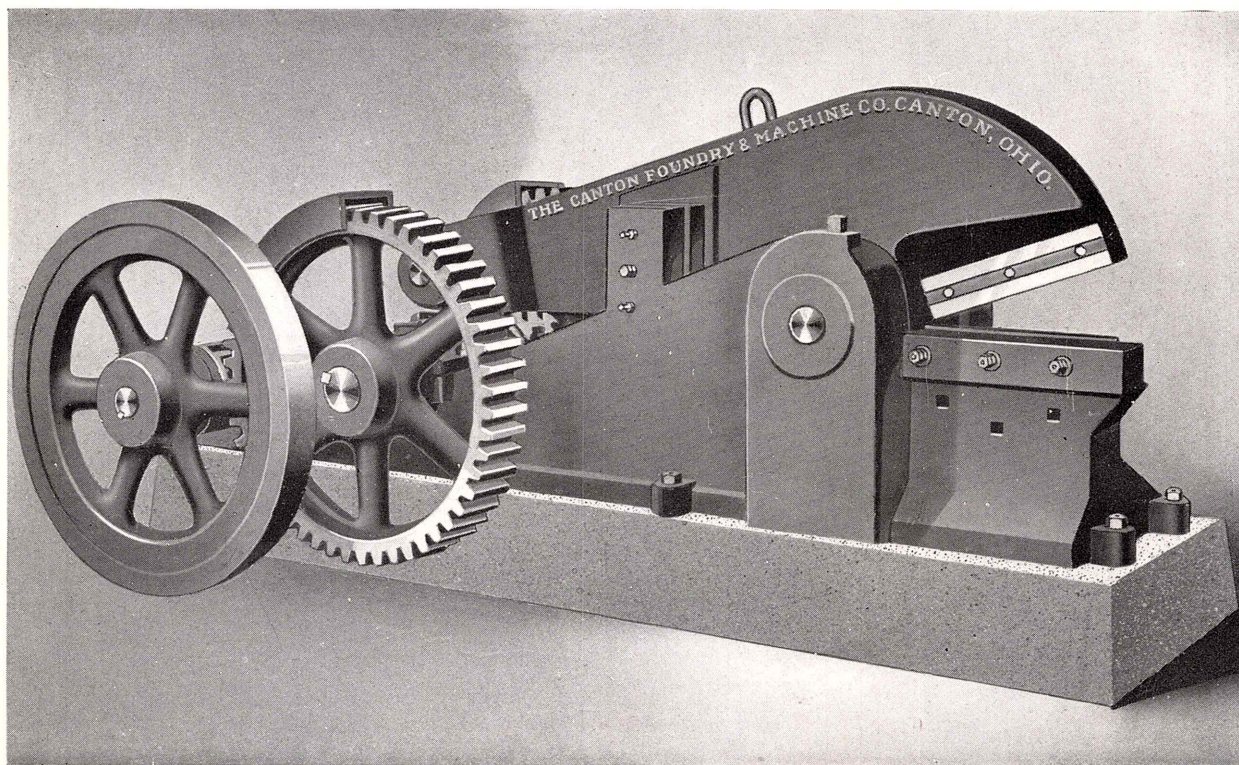
Knives 18", 19" or 24" in length. Opening at widest point $7\frac{1}{2}"$.

All main castings, such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft, 4" in diameter.

Main bearings are of phosphor-bronze—all other bearings are of the best quality babbit.

Built in Right or Left Hand, Belt or Motor Drive. This illustrates a No. 2 Low-Knife Right Hand Belt Driven Shear.



Number Three Shear

A medium sized general purpose Shear, in large use in country yards and in any plant and factory where the cutting calls for nothing exceeding 2 inches round or square.

This machine too is very popular in the scrap iron yard to relieve larger equipment, many such firms operating fleets of our No. 1, No. 3 and No. 5 machines.

This size Shear is especially adapted for Spring Shops and is very popular for that class of work.

See page 19 for illustration of this Shear in portable style.

Also page 13 for High-Knife type of same size.

The shearing capacity of this machine is up to and including 2" round or square in soft machinery steel or iron.

The total weight is 13,500 lbs., 7½ horse power required to operate at full capacity.

This Shear is equipped with Double Gears 37" in diameter, tight and loose pulleys 30" x 6", operating at 173 revolutions per minute. Single Fly Wheel 42" in diameter.

Cutting speed 40 cuts per minute.

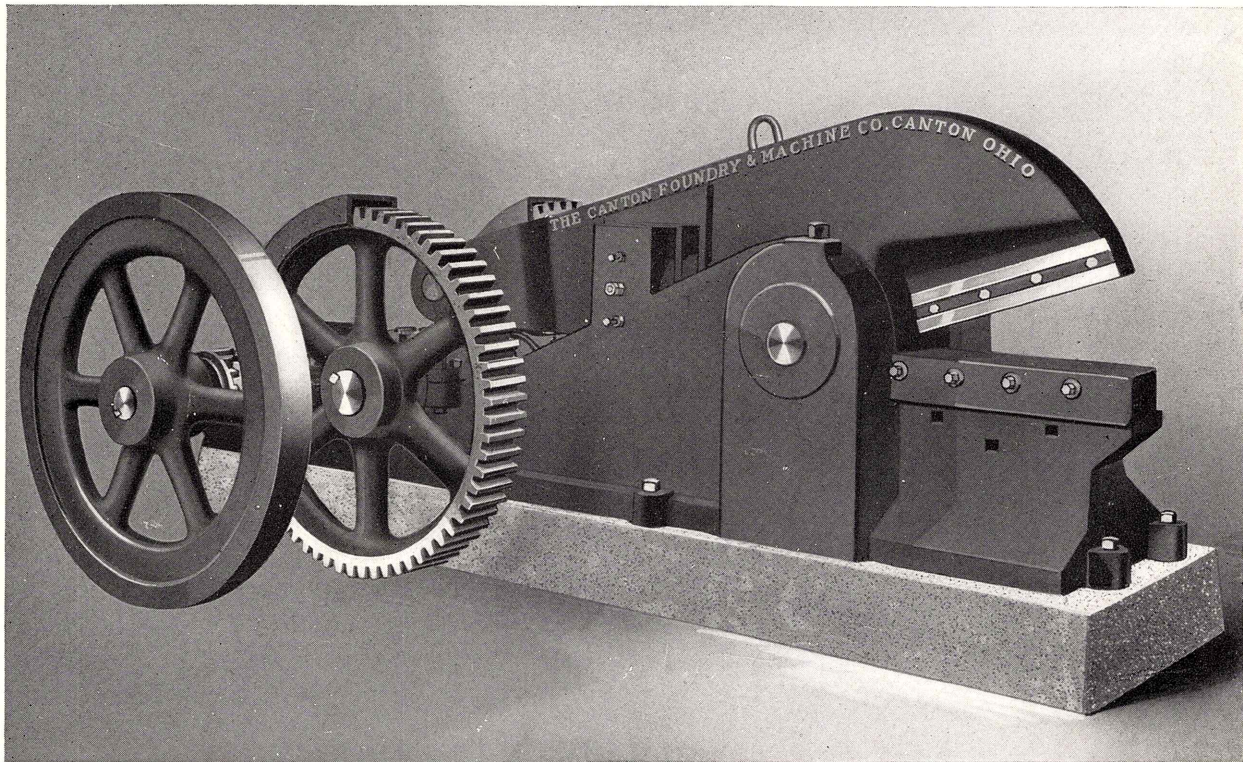
Knives 19", 22" or 24" in length. Opening at widest point of jaws 9".

All main castings, such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced properly proportioned cast steel shaft, 5" in diameter.

Main bearings are of phosphor-bronze—all other bearings are of best quality babbitt.

Built in Right or Left Hand, Belt or Motor Driven. This illustrates a No. 3 Low-Knife Right Hand Belt Driven Shear.



Number Four Shear

A general purpose Shear that is an excellent utility machine, by reason of its greater shearing capacity.

This Shear is in large use in the Reclaiming Departments of various Railroads and in Rolling Mills.

It is also to be found in many scrap yards—in fact any place where the material to be sheared calls for a machine with capacity of $2\frac{1}{2}$ " round or square and under.

The shearing capacity of this machine is up to and including $2\frac{1}{2}$ " round or square in soft machinery steel or iron.

The total weight is 17,500 lbs., 10 horse power required to operate at full capacity.

This Shear is equipped with Double Gears 43" in diameter, tight and loose pulleys 34" x 8", operating at 165 revolutions per minute. Single Fly Wheel 48" in diameter.

Cutting speed 35 cuts per minute.

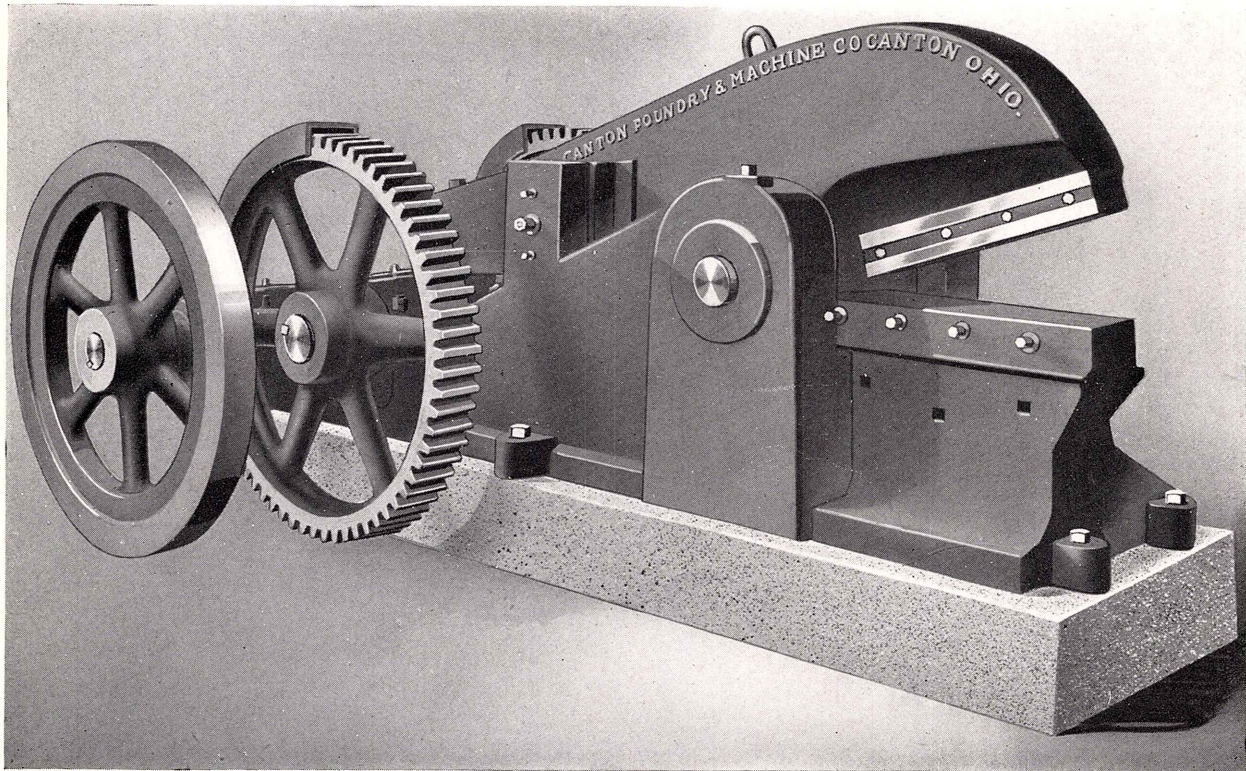
Knives 22" in length. Opening of jaws at widest point $8\frac{1}{2}$ ".

All main castings such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft, $5\frac{1}{2}$ " in diameter.

Main bearings are of phosphor-bronze—all other bearings are of best quality babbitt.

Built in Right or Left Hand, Belt or Motor Drive. This illustrates a No. 4 Low-Knife Right Hand Belt Driven Shear.



Number Five Shear

Without doubt the best general purpose Shear to be had. Like the No. 4, these machines are largely used in the Reclaiming Departments of Railroads, Rolling Mills and Scrap Yards. Having a capacity for cutting up to and including 3 inches round or square in soft machinery steel or iron, the diversity of its cutting is readily appreciated.

The best all around size machine to be had.

See page 14 for illustration of High-Knife type of same size.

The shearing capacity of this machine is up to and including 3" round or square in soft machinery steel or iron.

The total weight is 22,500 lbs., 15 horse power required to operate at full capacity.

This Shear is equipped with Double Gears, 48" in diameter, tight and loose pulleys 34" x 10", operating at 155 revolutions per minute. Single Fly Wheel 54" in diameter.

Cutting speed 30 cuts per minute.

Knives 26" in length. Opening of jaws at widest point 8½".

All main castings such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft, 6" in diameter.

Main bearings are of phosphor-bronze—all other bearings are of best quality babbitt.

Built in Right or Left Hand, Belt or Motor Drive. This illustrates a No. 5 Low-Knife Right Hand Belt Driven Shear.

Double Geared "Cantons" of the High-Knife Type

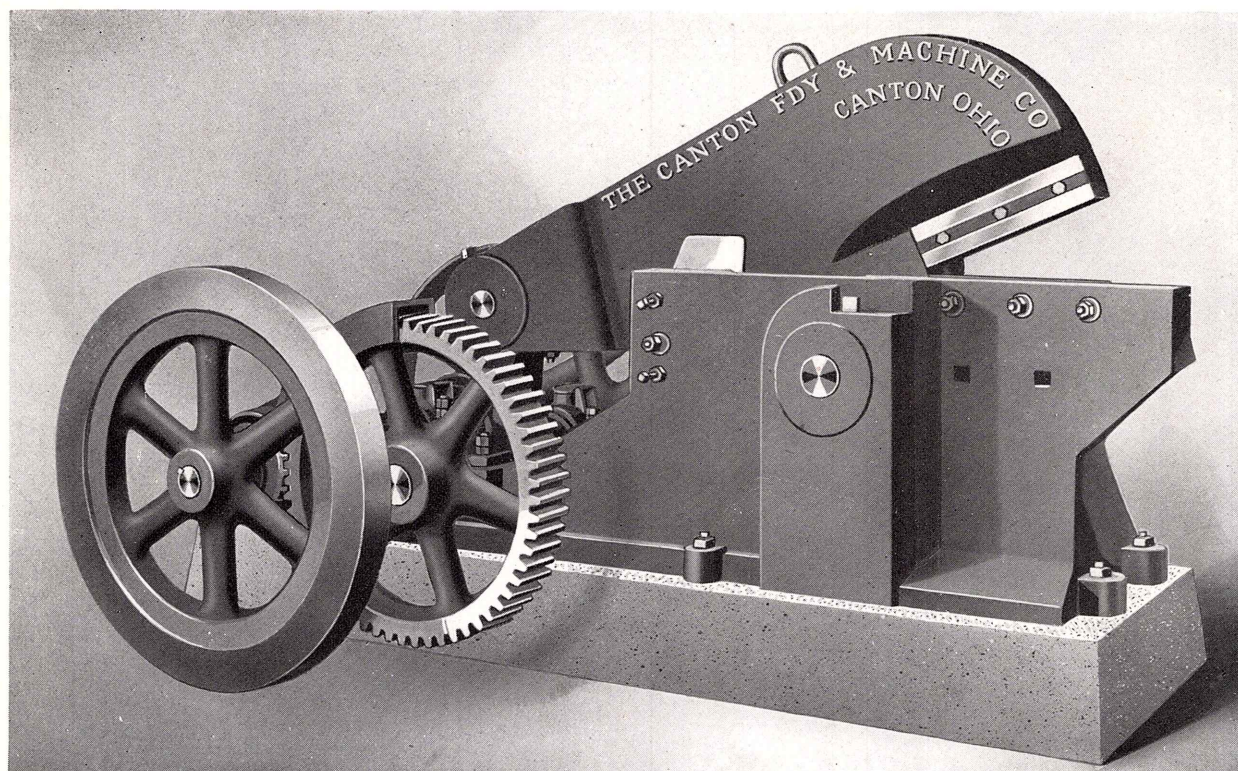
THE following pages show our No. 1, No. 2, No. 3 and No. 5 High-Knife type Shears.

As in the case of our Low-Knife machines illustrated and described in the preceding pages, all "Canton" Shears in the High-Knife type are made in both belt and motor drive, right or left hand.

High-Knife Shears perform all the functions of the Low-Knife type in the shearing of bars, round and flat stock. However, as the beds of this style machines are high and extend over the housings they provide a more economical means of cutting all kinds of sheet stock. Housings are low and out of the way—the operator of the Shear can shove the sheets back to the gears.

For the ordinary work and for cutting the usual run of scrap, Low-Knife machines are the ones we recommend. But where there is any quantity of plate and sheet stock to be sheared, we suggest the purchase of a High-Knife machine.

Although "Canton" High-Knife Shears have the same capacity in the square stock as our Low-Knife Shears, they are heavier throughout and in construction differ from our Low-Knife machines in the arms and beds only.



Number One High-Knife Shear

A clipping or busheling High-Knife Shear, extensively used in Automobile Body Shops. A machine to cut light sheets.

Many of our customers use a number of these machines where the volume of work is sufficient to keep a fleet busy—others one or two of these smaller Shears to relieve their larger equipment.

For shearing small sheets and for trimming purposes such as is sometimes required of a Shear in an Automobile Body Plant or in the Busheling Department of scrap yards, the No. 1 "Canton" cannot be improved upon.

Though not illustrated this machine can be furnished in portable style.

See page 5 for illustration of Low-Knife type of same capacity.

The shearing capacity of this machine is up to and including $1\frac{1}{2}$ " round or square in soft machinery steel or iron.

The total weight is 5,200 lbs., 5 horse power required to operate at full capacity.

This Shear is equipped with Double Gears 24" in diameter, tight and loose pulleys 24" x 4", operating at 200 revolutions per minute. Single Fly Wheel 32" in diameter.

Cutting speed 50 cuts per minute.

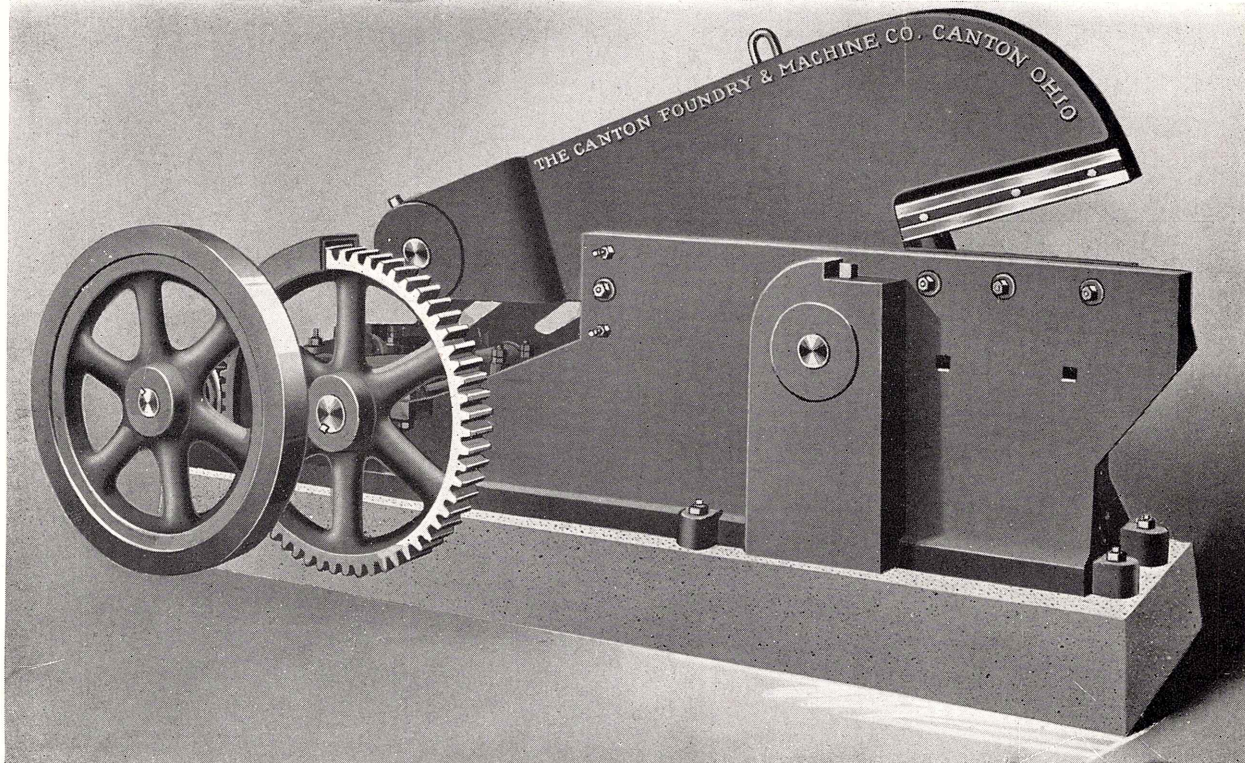
Knives either 13", 15" or 16" in length. Opening at widest point 6".

All main castings such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft $3\frac{1}{8}$ " in diameter.

Main bearings are of phosphor-bronze—all other bearings are of best quality babbitt.

Built in Right or Left Hand, Belt or Motor Drive. This illustrates a No. 1 High-Knife Right Hand Belt Driven Shear.



Number Two High-Knife Shear

A large clipping or busheling High-Knife Shear for light sheets of extra length.

The 24-inch knives enable this machine to perform a varied task. Slightly greater in capacity than our No. 1, it provides for a wider variety of cutting.

Very popular in the Busheling Departments of the larger scrap yards, etc., for cutting sheets and pipe.

Although not illustrated this machine can be furnished in the portable style.

See page 6 for illustration of the Low-Knife type of same capacity.

The shearing capacity of this machine is up to and including $1\frac{3}{4}$ " round or square in soft machinery steel or iron.

The total weight is 10,000 lbs., $7\frac{1}{2}$ horse power required to operate at full capacity.

This Shear is equipped with Double Gears $33\frac{1}{2}$ " in diameter, tight and loose pulleys 24" x 6", operating at 225 revolutions per minute. Single Fly Wheel 36" in diameter.

Cutting speed 45 cuts per minute.

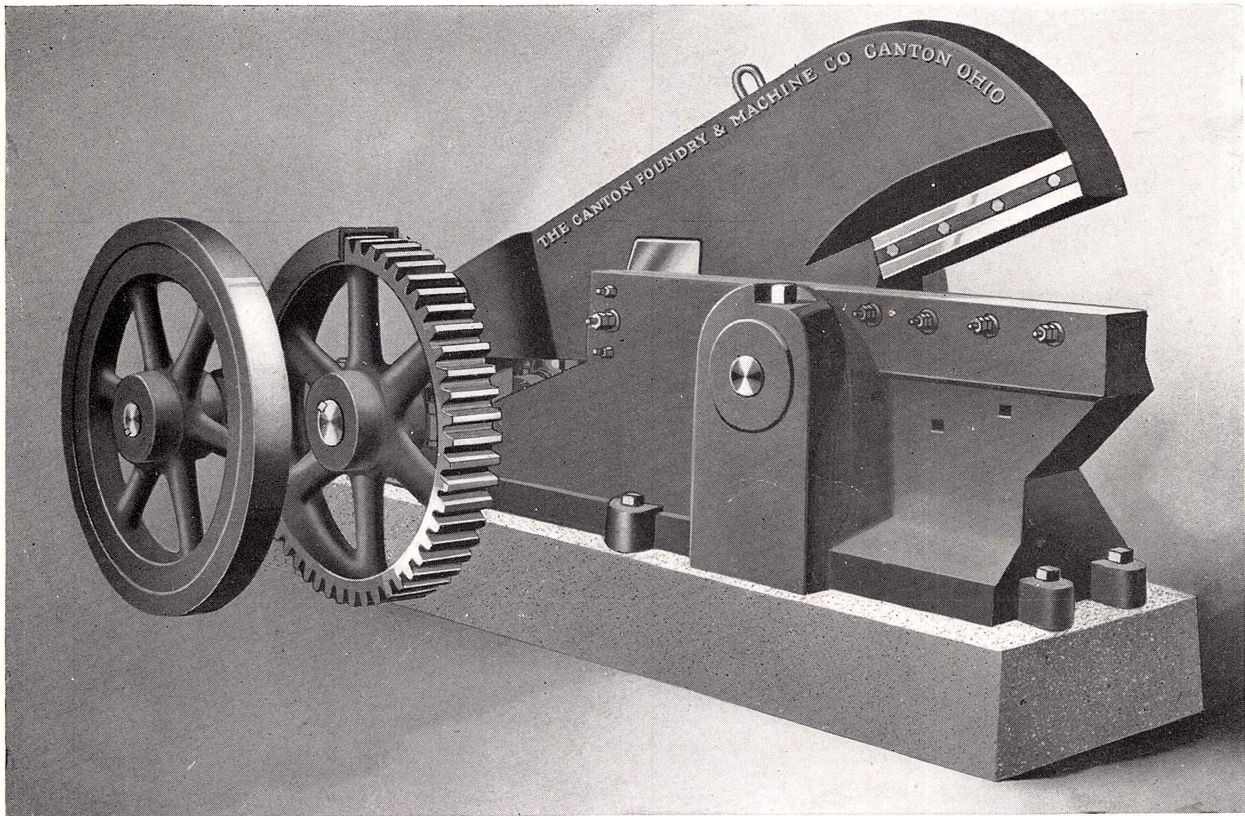
Knives 18", 19" or 24" in length. Opening at widest point of jaw $7\frac{1}{2}$ ".

All main castings such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft, 4" in diameter.

Main bearings are of phosphor-bronze—all other bearings are of best quality babbitt.

Built in Right or Left Hand, Belt or Motor Drive. This illustrates a No. 2 High-Knife Right Hand Belt Driven Shear.



Number Three High-Knife Shear

A medium sized general purpose High-Knife Shear, in large use in Scrap Iron yards and in any plant and factory where they have moderately heavy sheets to cut.

This machine is very popular in scrap iron yards to relieve larger equipment; many such firms operating our No. 1 and No. 5 machines use one or more of this size in addition.

With shorter knives than the No. 2, this machine is intended for slightly heavier work rather than for larger sheets and is well termed a medium sized general purpose High-Knife Shear.

Although not illustrated this machine can be furnished in portable style.

See page 7 for illustration of Low-Knife type of same capacity.

The shearing capacity of this machine is up to and including 2" round or square in soft machinery steel or iron.

The total weight is 15,500 lbs., 10 horse power required to operate at full capacity.

This Shear is equipped with Double Gears 37" in diameter, tight and loose pulleys 30" x 6", operating at 173 revolutions per minute. Single Fly Wheel 42" in diameter.

Cutting speed 40 cuts per minute.

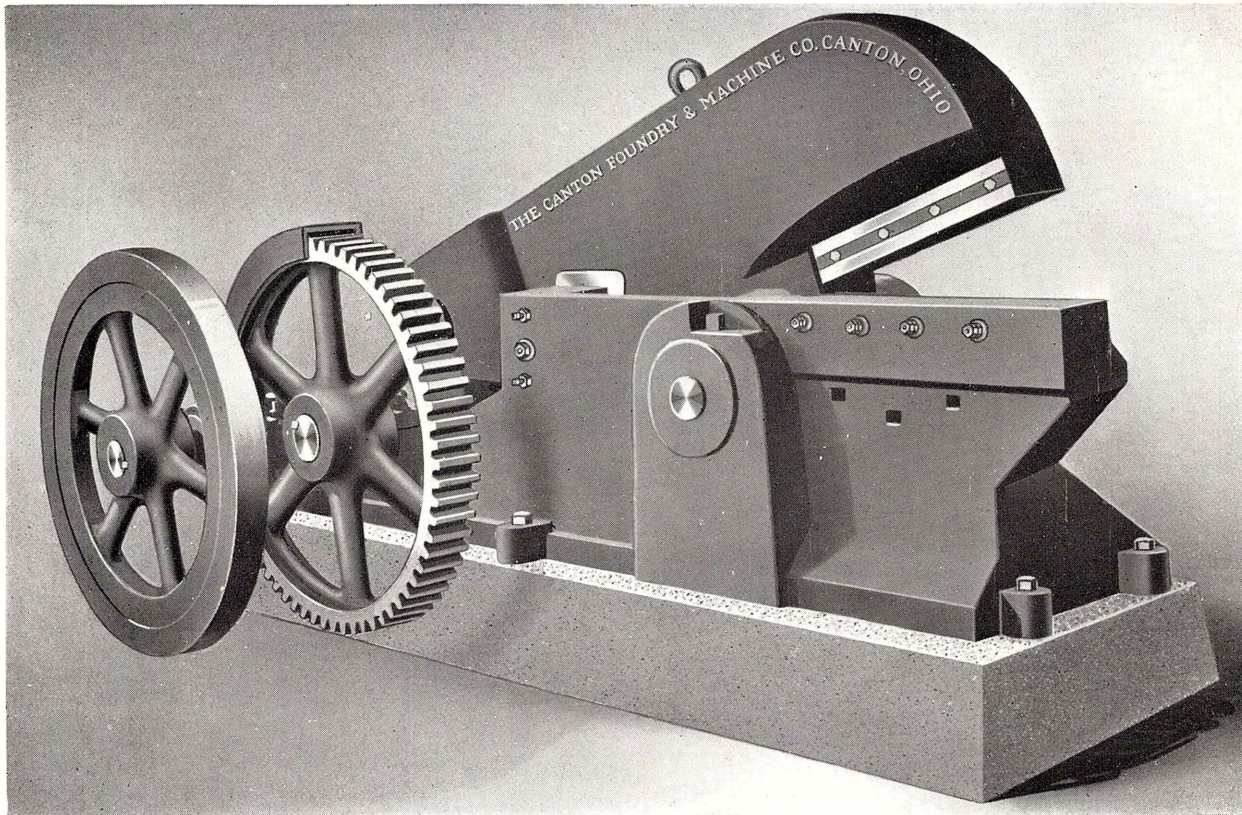
Knives 19", 22" or 24" in length. Opening at widest point of jaw 9".

All main castings such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft, 5" in diameter.

Main bearings are of phosphor-bronze—all other bearings are of best quality babbitt.

Built in Right or Left Hand, Belt or Motor Drive. This illustrates a No. 3 High-Knife Right Hand Belt Driven Shear.



Number Five High-Knife Shear

Without doubt the best general purpose High-Knife Shear to be had. Like the No. 5 Low-Knife, these machines are largely used by Scrap Yards. Having a capacity for cutting up to and including 3" round or square in soft machinery steel or iron, the diversity of its cutting is readily appreciated.

See page 9 for illustration of Low-Knife type of same capacity.

This machine is designed for shearing not only longer sheets but heavier ones.

The shearing capacity of this machine is up to and including 3" round or square in soft machinery steel or iron.

The total weight is 26,500 lbs., the horse power required to operate at full capacity being 20.

This Shear is equipped with Double Gears 48" in diameter, tight and loose pulleys 34" x 10", operating at 155 revolutions per minute. Single Fly Wheel 54" in diameter.

Cutting speed 30 cuts per minute.

Knives 26" or 30" in length. Opening at widest point of jaw 8½".

All main castings such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft, 6" in diameter.

Main bearings are of phosphor-bronze—all other bearings are of best quality babbitt.

Built in Right or Left Hand, Belt or Motor Drive. This illustrates a No. 5 High-Knife Right Hand Belt Driven Shear.

Portable "Canton" Alligator Shears

QUITE often it is essential and more economical to have a Shear that can be moved about, hence the development of our line of Portable Shears.

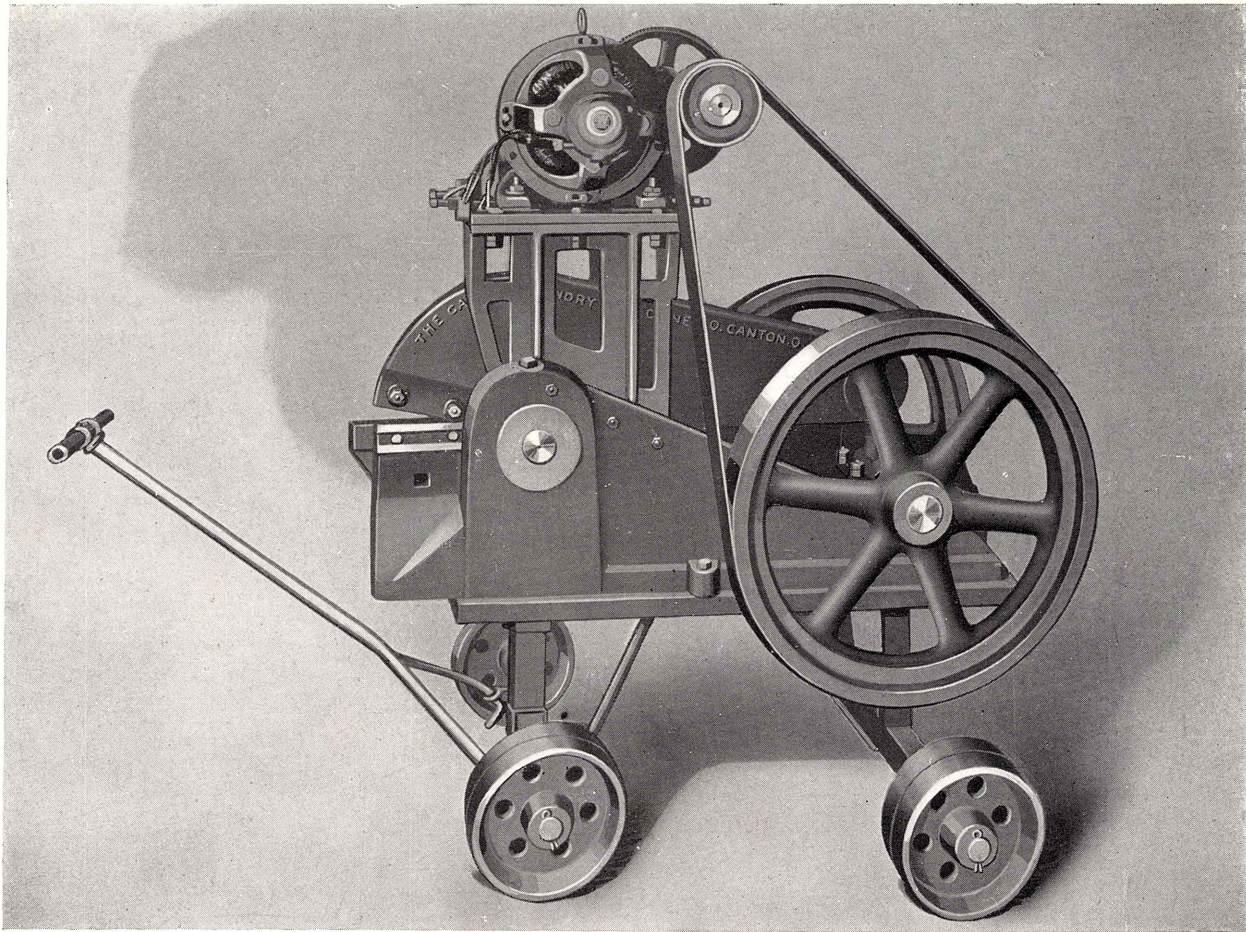
A Portable Shear is very profitable in Steel Plants, Spring Shops, for Contractors shearing reinforcing bars and in Scrap Iron Yards.

A Portable Shear in order to be more convenient and practical usually is Motor Driven—a complete unit in itself—therefore we, of course, offer this style of machine in the Motor Drive, altho they can be furnished with tight and loose pulleys to be driven with a gasoline engine.

These machines are precisely the same as the Shears shown in the illustrations on pages 4, 5, 6, and 7 only mounted on trucks. They are furnished in either High or Low-Knife styles, Right or Left Hand. With the exception of the No. 3 Shear the trucks, as you will note, have high, wide wheels, making it easy to draw them over the ground. The trucks are strong and heavy in construction and will give long and good service. By reason of its weight the No. 3 Portable Shear is not practical for moving over the ground, so you will note the truck is built with flanged wheels for operating on an industrial track system.

The axles at both front and rear are so arranged that the tongue or pulling handle may be attached to either axle. This allows the operator to draw the machine to the scrap pile, do what shearing is required and then by attaching the tongue to the rear axle, draw the Shear out backward.

The trucks are not built out to the extreme front end of the Shear, but only to the housings. This is done to avoid cuttings accumulating on the truck bed, getting in the way of the operator and making it difficult to remove the Shear.



Number Thirty Portable Motor Driven Shear

A light, quick acting machine, especially useful in Automobile Body Shops, Metal Sash Doors and Furniture Plants, as well as factories making strip steel rods, etc.

This machine handles everything up to and including its maximum capacity of 1" round or square in soft machinery steel or iron.

Many of our customers use a machine of this type in addition to the heavier Shears, thereby relieving the latter of a large volume of light work.

See page 4 for illustration of this Shear in Stationary style.

The shearing capacity of this machine is up to and including 1" round or square in soft machinery steel or iron.

The total weight is 3,500 lbs., 3 horse power required to operate at full capacity.

This Shear is equipped with Double Fly Wheels 38" in diameter, one of which serves as a combined pulley and fly wheel operating at 70 revolutions per minute.

Cutting speed 70 cuts per minute.

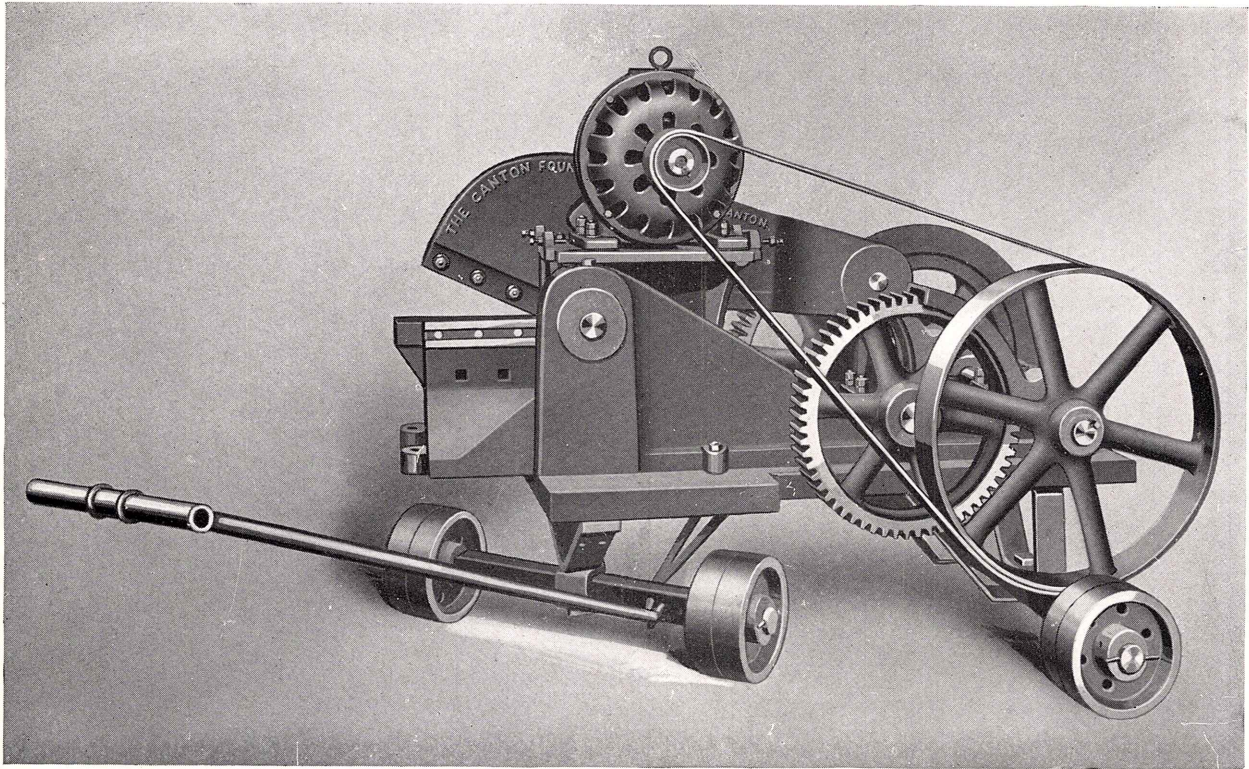
Knives 8" in length. Opening at widest point of jaws $2\frac{3}{4}$ ".

All main castings such as lever, base, gears, double fly wheels, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft, $3\frac{1}{4}$ " in diameter.

All bearings are of the best quality babbitt.

Built in Right or Left Hand. This illustrates a No. 30 Low-Knife Right Hand Portable Motor Driven Shear.



Number One Portable Motor Driven Shear

A clipping or busheling Shear, extensively used in Automobile Body Shops, by Scrap Rubber Dealers, Metal Dealers and in the Reclaiming Departments of large Rubber Tire Companies. Also used in various Manufacturing Plants where the cutting calls for 1½-inches round or square in soft machinery steel or iron. Popular among Construction Companies for shearing reinforcing rods. Easy to move about.

Many of our customers use a number of these machines where the volume of work is sufficient to keep a fleet busy—others one or two of these smaller Shears to relieve their larger equipment.

The No. 1 High-Knife Shear shown on page 11 can also be furnished in the portable type
See page 5 for illustration of this Shear in Stationary style..

The shearing capacity of this machine is up to and including 1½" round or square in soft machinery steel or iron.

The total weight is 4,600 lbs., 5 horse power required to operate at full capacity.

This Shear is equipped with Double Gears 24" in diameter, large tight pulley 32" x 4", operating at 200 revolutions per minute. Single Fly Wheel 32" in diameter.

Cutting speed 50 cuts per minute.

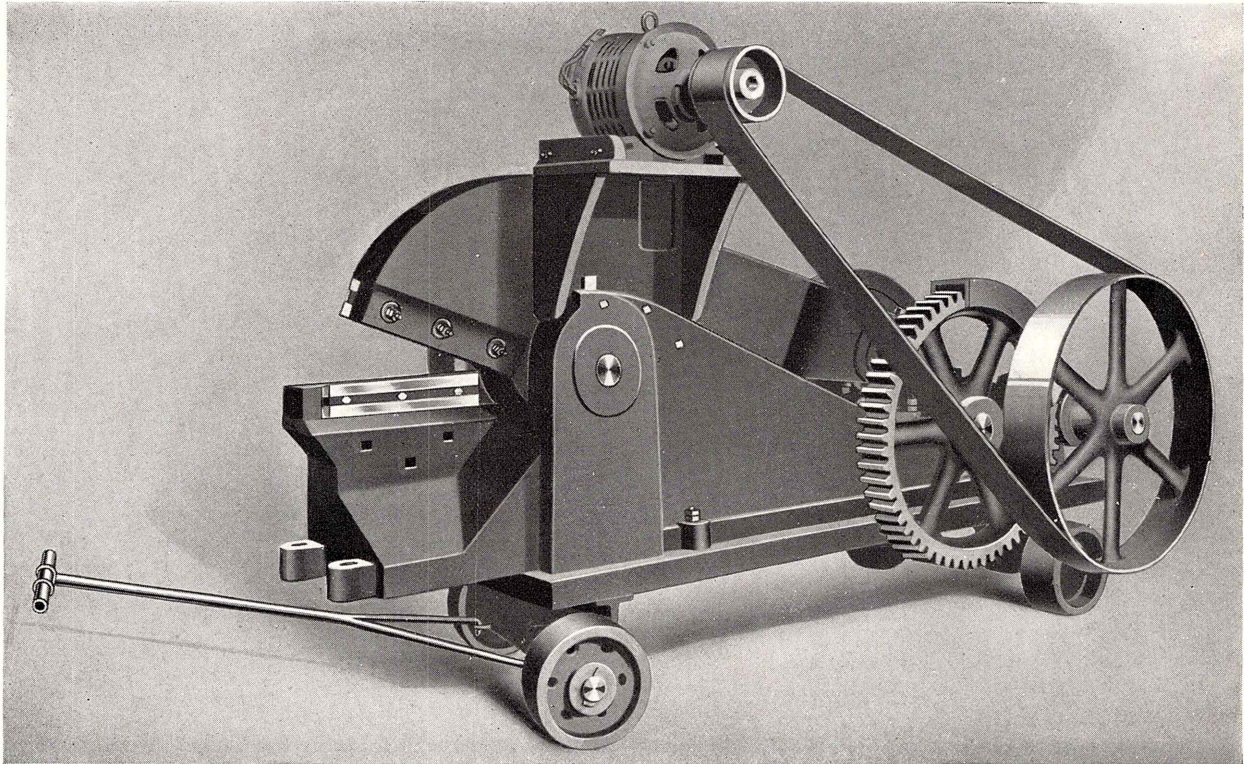
Knives 13", 15" or 16" in length. Opening at widest point of jaw 6".

All main castings such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft 3 1-8" in diameter.

Main bearings are phosphor-bronze — all other bearings are of best quality babbitt.

Built in Right or Left Hand. This illustrates a No. 1 Low-Knife Right Hand Portable Motor Driven Shear. Can be furnished in belt drive with tight and loose pulleys for gasoline engine drive.



Number Two Portable Motor Driven Shear

A large clipping or busheling Shear, quite extensively used for shearing reinforcing rods, also by Drop Forge Manufacturers for shearing flashings. In use elsewhere by Scrap Iron and Steel Companies, as well as various Manufacturing Companies.

An excellent machine for medium work that calls for a larger Shear than our No. 1.

When equipped with 24-inch knives it makes a very handy Shear for the Busheling Department of any scrap yard.

The No. 2 High-Knife Shear shown on page 12 can also be furnished in the portable type.

See page 6 for illustration of this Shear in Stationary style.

The shearing capacity of this machine is up to and including $1\frac{3}{4}$ " round or square in soft machinery steel or iron.

The total weight is 9,000 lbs., 5 horse power required to operate at full capacity.

This Shear is equipped with Double Gears $33\frac{1}{2}$ " in diameter, large tight pulley 38" x 6", operating at 225 revolutions per minute. Single Fly Wheel 36" in diameter.

Cutting speed 45 cuts per minute.

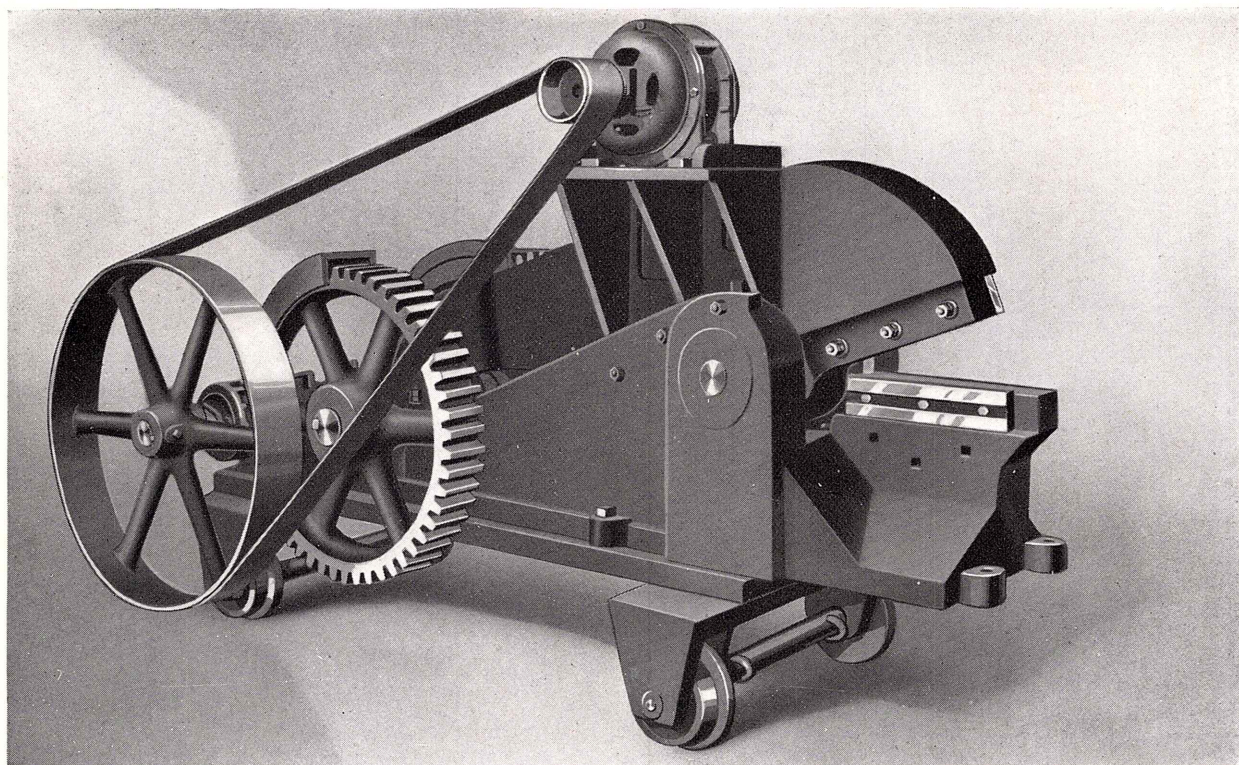
Knives 18", 19" or 24" in length. Opening at widest point of jaw $7\frac{1}{2}$ ".

All main castings such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft 4" in diameter.

Main bearings are phosphor-bronze — all other bearings are of the best quality babbitt.

Built in Right or Left Hand. This illustrates a No. 2 Low-Knife Right Hand Portable Motor Driven Shear. Can be furnished in belt drive with tight and loose pulleys for gasoline engine drive.



Number Three Portable Motor Driven Shear

A medium sized general purpose Shear, in large use in the country yards and in any plant and factory where the cutting calls for nothing exceeding 2-inches round or square.

Being too heavy to draw over the ground, this machine is mounted on a truck equipped with flanged wheels for operating on an industrial track system.

This size Shear is especially adapted for Spring Shops and is very popular for that class of work.

The No. 3 High-Knife Shear shown on page 13 can also be furnished in the portable type.

See page 7 for illustration of this Shear in Stationary style.

The shearing capacity of this machine is up to and including 2" round or square in soft machinery steel or iron.

The total weight is 13,500 lbs., 7½ horse power required to operate at full capacity.

This Shear is equipped with Double Gears 37" in diameter, large tight pulley 44" x 6", operating at 173 revolutions per minute. Single Fly Wheel 42" in diameter.

Cutting speed 40 cuts per minute.

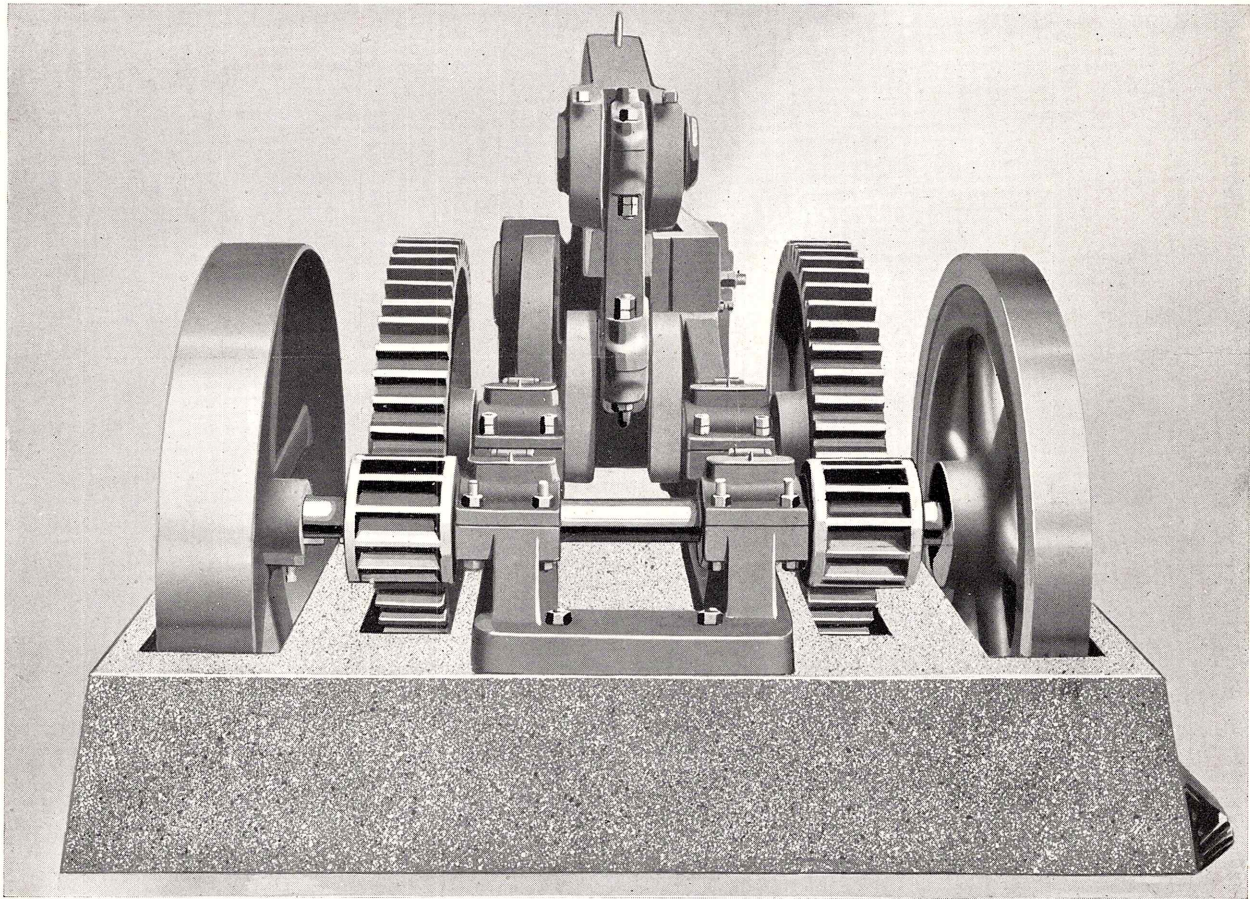
Knives 19", 22" or 24" in length. Opening at widest point of jaw 9".

All main castings such as lever, base, gears, fly wheel, pitman and pulleys are of semi-steel.

Crank shaft is a well balanced, properly proportioned cast steel shaft, 5" in diameter.

Main bearings are of phosphor-bronze—all other bearings are of best quality babbitt.

Built in Right or Left Hand. This illustrates a No. 3 Low-Knife Left Hand Portable Motor Driven Shear.



All Canton Shears are Double Geared

This view illustrates the double gears, a feature which makes Canton Alligator Shears machines of perfect balance, not alone in the application of power but also in the distribution of the terrific strains to which Alligator Shears are subjected.

Built in Right or Left Hand, Belt or Motor Drive. This illustrates a No. 1 High Knife, Right Hand, Motor Driven Shear. Motor Bracket and Motor being removed to show machine more clearly.

Guarantee

EVERY "Canton" Shear is thoroughly tested to its rated capacity before it leaves the factory and we absolutely guarantee each and every "Canton" Shear to be free from defects in materials and workmanship, and to cut up to and including its rated capacity.

It makes no difference what kind of scrap you have to handle there is a "Canton" Alligator Shear that will do the work and at the same time establish higher standards of efficiency, economy and earning power.

As for ourselves, having studied for 25 years the requirements of Scrap Iron Dealers, Rolling Mills, Construction Companies (shearing reinforcing rods), Reclaiming Departments of Railroads, Rubber Tire Makers, Scrap Metal Dealers, Steel Plants, etc., we are in position to render a service second to none. We can and gladly will advise with you, make suggestions and in the end furnish you equipment ideally built for your own particular needs.

"Canton" Shears are the best machines obtainable. The service behind them is provided by a long established and reliable house. "Canton" Shears and this service together are indispensable to every manufacturer or dealer who handles scrap material, or has use for an Alligator Shear.

These People Have Found the Economy of Using "Canton" Shears

A great many are using two or three, quite a few six or eight and some as high as twelve to eighteen. Names listed below where two or more shears are used are indicated with an asterisk.

SCRAP DEALERS

M. Sabel & Sons, Montgomery, Ala.
M. Levin & Co., San Francisco, Cal.
Frankel Bros., Montreal, Que., Canada.
*Suisman & Blumenthal, Hartford, Conn.
Sabel Bros., Jacksonville, Fla.
Jos. Joseph & Bros. Co., Chicago, Ill.
J. Cohen & Sons, Jacksonville, Ill.
M. Ramonfsky & Sons, LaSalle, Ill.
D. Goldman, Rockford, Ill.
Simon Burstein, Decatur, Ill.
Klein Bros., Kokomo, Ind.
East Chicago Iron & Metal Co., East Chicago, Ind.
A. M. Friedman, Marshalltown, Iowa.
Louis P. Hyman & Co., Louisville, Ky.
George Strous, Ashland, Ky.
*A. Marx & Sons, New Orleans, La.
*John R. Cowley & Bro., Mobile, Ala.
Gutterson & Gould, Portland, Maine.
Jameson, McKenzie & Evans, Baltimore, Md.
D. Rachlin & Sons, Fall River, Mass.
Lewis Sovrensky, Cambridge, Mass.
Gutterson & Gould, Lawrence, Mass.
*Roxbury Iron & Metal Co., Boston, Mass.
Geo. J. Bresth Co., Lowell, Mass.
*Velick Scrap Iron & Machinery Co., Detroit, Mich.
*B. Fealk, Detroit, Mich.
H. Hirschfield & Co., Bay City, Mich.
*Gallow & Greenbaum, Detroit, Mich.
Flint Scrap Iron & Metal Co., Flint, Mich.
Pontiac Scrap Iron & Metal Co., Pontiac, Mich.
*Duluth Iron & Metal Co., Duluth, Minn.
N. O'Rorke, Meridian, Miss.
*Harris Fiestal, Trenton, N. J.
*Herman Ellis, Perth Amboy, N. J.
*Joe Zamelsky, Newark, N. J.
*Lowenstein Bros., Newark, N. J.
Jacob Rosen, Buffalo, N. Y.
*Standard Rail & Steel Co., Madison, Ill.
H. S. Horwitz & Co., Utica, N. Y.
*L. Schiavone & Co., New York, N. Y.
S. Goldstone, Oneida, N. Y.
Herschopf & Sons, Brooklyn, N. Y.
Jamestown Iron & Metal Co., Jamestown, N. Y.

Ben Duberstein, Dayton, Ohio.
*Alliance Iron & Metal Co., Alliance, Ohio.
Jos. Joseph & Bros. Co., Modena, Pa.
*John Eickleay Jr. Co., Pittsburgh, Pa.
Lippock & Weinbaum, Pittsburgh, Pa.
C. & D. Iron & Metal Co., Burgettstown, Pa.
E. Bers & Co., Philadelphia, Pa.
B. Goldstein, Providence, R. I.
Dallas Iron & Metal Co., Dallas, Texas.
L. Frankenstein, San Antoino, Texas.
Rutland Waste & Metal Co., Rutland, Vt.
Roanoke Scrap Iron & Metal Co., Roanoke, Va.
Alaska Junk Co., Seattle, Wash.
Geo. Yampolsky, Clarksburg, W. Va.
Lewis Levene & Sons, Binghamton, N. Y.
Benstock & Rosenberg, Buffalo, N. Y.
C. Swartz & Co., Durham, N. C.
*Jos. Joseph & Bros. Co., Cincinnati, Ohio.
Sam Kasle, Toledo, Ohio.
Youngstown Iron & Metal Co., Youngstown, Ohio.
*Topper Bros., Columbus, Ohio.
Friedman Bros., Cleveland, Ohio.
J. Stern & Sons, Upper Sandusky, Ohio.
*M. Cohen & Sons, Cleveland, Ohio.
Kasle Iron & Metal Co., Toledo, Ohio.
Berkman Iron & Steel Co., Canton, Ohio.
*Buffalo House Wrecking & Salvage Co., Buffalo, N. Y.
*Perry-Buxton-Doane Co., Boston, Mass.
*United Iron and Metal Co., Canton, Ohio.
Lee C. Moore & Co., Tulsa, Oklahoma.
Chicago Hide, Fur & Wool House, Inc., Douglas, Wyo.

RUBBER TIRE MANUFACTURERS

*Goodyear Tire & Rubber Co., Akron, Ohio.
*Goodyear Tire & Rubber Co., New Toronto, Canada.
*United Rubber Co., Akron, Ohio.
*Diamond Rubber Tire Co., Akron, Ohio.
*Firestone Tire & Rubber Co., Akron, Ohio.
McGraw Tire & Rubber Co., East Palestine, Ohio.
Republic Rubber Co., Youngstown, Ohio.
*Rubber Regenerating Co., Naugatuck, Conn.,
Rubber Regenerating Co., Miskawaka, Ind.
*U. S. Rubber Reclaiming Co., Buffalo, N. Y.
*Miller Rubber Co., Akron, Ohio.

FACTORIES

- *Savage Arms Corporation, Sharon, Pa.
- *Connors-Weymann Steel Co., Birmingham, Ala.
- United States Steel Products Co., Los Angeles, Cal.
- Canadian Steel Foundries, Welland, Ont., Canada.
- London Rolling Mill Co., London, Canada.
- *Remington Arms & Ammunition Co., Bridgeport, Conn.
- *Yale & Towne Mfg. Co., Stamford, Conn.
- *Bridgeport Brass Co., Bridgeport, Conn.
- *Bristol Brass Co., Bristol, Conn.
- Wilmington Malleable Iron Co., Wilmington, Del.
- *Atlantic Steel Co., Atlanta, Ga.
- Swift & Co., Chicago, Ill.
- Armour & Co., Chicago, Ill.
- Keystone Steel & Wire Co., Peoria, Ill.
- Rockford Paper Box Board Co., Rockford, Ill.
- Barton Spider-Web System, Chicago, Ill.
- Aluminum Ore Co., East St. Louis, Ill.
- Cochran Mfg. & Forge Co., Chicago, Ill.
- *Standard Oil Co. of Indiana, Whiting, Ind.
- Illinois Steel Co., Gary, Ind.
- Union Drawn Steel Co., Gary, Ind.
- Independent Transfer Co., Iowa Falls, Iowa.
- Ewald Iron Co., Louisville, Ky.
- *Aberthaw Construction Co., Boston, Mass.
- *Worcester Pressed Steel Co., Worcester, Mass.
- *Midvale Cambria Steel Co., Boston, Mass.
- *Detroit Copper & Brass Rolling Mill, Detroit, Mich.
- Michigan Smelting & Refining Co., Detroit, Mich.
- Continental Motors Corp., Muskegon, Mich.
- *Timken-Detroit Axle Co., Detroit, Mich.
- *Central Forge Co., Div. General Motors Corp., Detroit, Mich.
- *Ford Motor Co., Detroit, Mich.
- Northern Machinery Co., Minneapolis, Minn.
- More-Jones Brass & Metal Co., St. Louis, Mo.
- *Continuous Casting Corp., Newark, N. J.
- *Chrome Steel Works, Chrome, N. J.
- Crucible Steel Co. of America, Sanderson Works, Syracuse, N. Y.
- New Jersey Zinc Co., New York, N. Y.
- *Quigley Furnace & Foundry Co., New York, N. Y.
- *Cayuga Tool Steel Co., Auburn, N. Y.
- Johnston Harvester Co., Batavia, N. Y.
- Tallassee Power Co., Badin, N. C.
- *Hydraulic Pressed Steel Co., Cleveland, Ohio.
- Miami Brass Foundry Co., Dayton, Ohio.
- *Warren Iron & Steel Co., Warren, Ohio.
- *Willys-Overland Co., Toledo, Ohio.
- Tranuse & Williams Forging Co., Alliance, Ohio.
- *The Otis Steel Co., Cleveland, Ohio.
- *Canton Steel Foundry Co., Canton, Ohio.
- United Alloy Steel Co., Canton, Ohio.
- *Youngstown Pressed Steel Co., Youngstown, Ohio.
- *The Beans Spring Co., Massillon, Ohio.
- Oklahoma Pipe & Supply Co., Bartlesville, Okla.

- Oklahoma Iron Works, Tulsa, Okla.
- *Philadelphia Steel & Forge Co., Philadelphia, Pa.
- *H. Koppers Co., Pittsburgh, Pa.
- Westinghouse Air Brake Co., Wilmerding, Pa.
- *Hockensmith Wheel & Mine Car Co., Penn Station, Pa.
- *Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.
- *Bethlehem Steel Co., So. Bethlehem, Pa.
- *Aluminum Co. of America, Marysville, Tenn.
- Lufkin Fdy. & Mch. Co., Lufkin, Texas.
- Great Western Smelting & Refining Co., Seattle, Wash.
- *Phillips Sheet & Tin Plate Co., Weirton, W. Va.
- Canada Steel Co., Hamilton, Ontario.
- Fairmount Drop Forge Co., Fairmount, Ind.
- Bancroft & Martin, Portland, Maine.
- Stone & Webster Co., Baltimore, Md.
- *Parish Pool Co., Cleveland, Ohio.
- *West Va. Metal Products Corporation, Fairmount, W. Va.
- Kelsey Wheel Co., Inc., Detroit Mich.
- *The Cleveland Hdw. Co., Cleveland, O.

RAILROADS

- Oregon Short Line R. R. Co., Pocatello, Idaho.
- *Chicago, Rock Island & Pacific R. R., Silvis Shops, Ill. & Gresham Junction, Ill.
- C. & I. Midland R. R. Co., Taylorville, Ill.
- *B. & O. R. R. Co., Washington, Ind., Mt. Clare, Baltimore, Md.
- Western-Maryland R. R. Co., Cumberland, Md.
- Boston & Albany R. R. Co., W. Springfield, Mass.
- Kansas City Southern Ry. Co., Kansas City, Mo.
- *N. Y. Central & H. R. R., West Albany, N. Y.
- B. & O. R. R. Co., Glenwood, Pa.
- *Penna. R. R. Co., Philadelphia, Pa.,
- Erie R. R. Co., Meadville, Pa.
- Receivers I. & G. N. Ry., Palestine, Texas.
- Washington Southern Ry., Potomac Yards, Va.
- Penna. R. R. Co., Stark, Ohio.
- Hocking Valley R. R., Logan, O.
- Canadian Pacific R. R. Co., Montreal, Quebec.

Many of the above Railroads (and others too) are using a number of "Canton" Shears at other points.

FOREIGN

- *LaMagona d' Italia, Portovecchio di Piombine, Italy.
- E. Austin & Sons, London, England.
- *J. Schnurmann, Tottenham, London, England.
- Marcelino Ibanez, Calle de Castanos, Bilbao, Spain.
- *Republique Francaise, France.
- Chilean Government, Chile, South America.
- Western Cartridge Co., East Alton, Ill., for their works in Colombia, S. A.